

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-200282
 (43)Date of publication of application : 31.07.1998

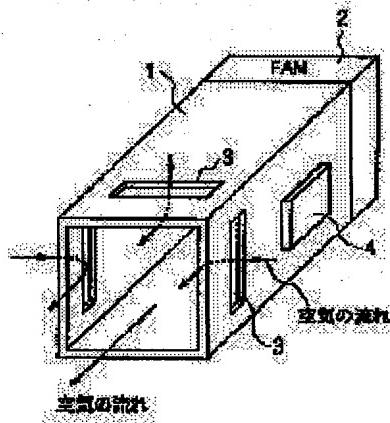
(51)Int.Cl. H05K 7/20
 H01L 23/467

(21)Application number : 09-017337 (71)Applicant : KENWOOD CORP
 (22)Date of filing : 14.01.1997 (72)Inventor : OKADA TATSUSAKU

(54) FORCIBLE AIR COOLING RADIATOR

(57)Abstract:

PROBLEM TO BE SOLVED: To miniaturize a radiator.
SOLUTION: In the forcible air cooling radiator for supplying the air in a cylindrical radiator, air intake ports 3 are provided near an air flow outlet of the radiator 1. The air flows as indicated by arrows, and is exhausted out of a housing so as not to remain in the housing. The exhaust air includes cold air sucked from the supply air flow of a fan 2 from vent holes 3, its temperature is low, and a back surface panel is not heated. Even if a radiator body 1 is miniaturized, the temperature of a housing exterior can be suppressed to a range of standards.



LEGAL STATUS

[Date of request for examination] 25.02.2000

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3253882

[Date of registration] 22.11.2001

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

(19)日本国特許庁 (JP)

(12) 公開特許公報 (A)

(11)特許出願公開番号

特開平10-200282

(43)公開日 平成10年(1998)7月31日

(51)Int.Cl.⁶

H 05 K 7/20

識別記号

H 01 L 23/467

F I

H 05 K 7/20

H

G

H 01 L 23/46

C

審査請求 未請求 請求項の数1 FD (全3頁)

(21)出願番号

特願平9-17337

(22)出願日

平成9年(1997)1月14日

(71)出願人 000003595

株式会社ケンウッド

東京都渋谷区道玄坂1丁目14番6号

(72)発明者 岡田 立策

東京都渋谷区道玄坂1丁目14番6号株式会
社ケンウッド内

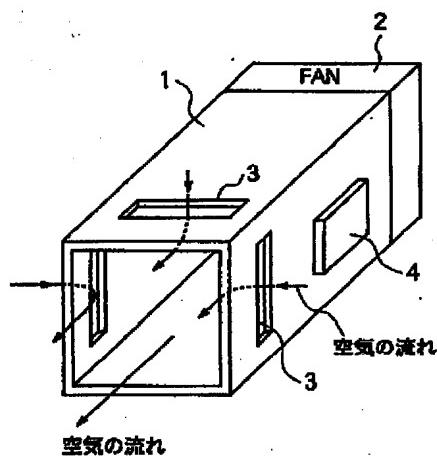
(74)代理人 弁理士 柴田 昌雄

(54)【発明の名称】 強制空冷放熱器

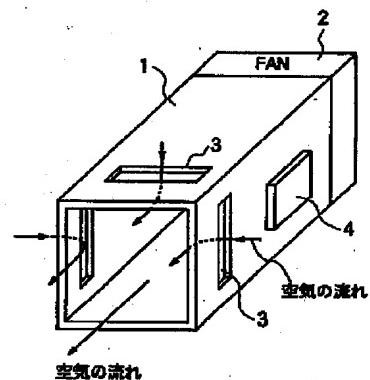
(57)【要約】

【課題】放熱器を小型とすることを可能にする。

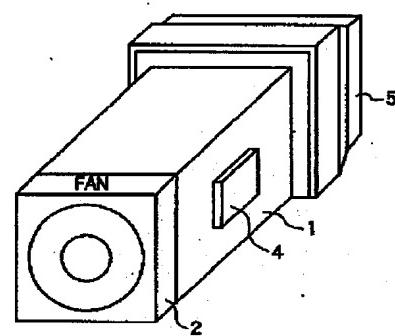
【解決手段】筒状の放熱器の内部に空気を流す強制空冷放熱器において、筒状放熱器1の空気流れ出口近傍に空気取り入れ口3、3…を設けた。空気は図示の矢印に示すように流れ、筐体内部に滞留しないように筐体外部に排気される。排気には通気穴3、3…からファン2の送風気流により吸い込まれた冷気が含まれており、その温度が低く背面パネルが熱せられることなく、放熱器本体1を小型としても筐体外装部の温度を規格の範囲内に抑えることができる。



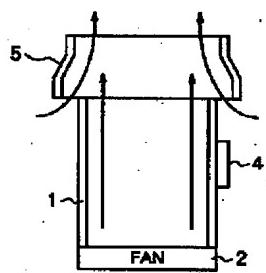
【図1】



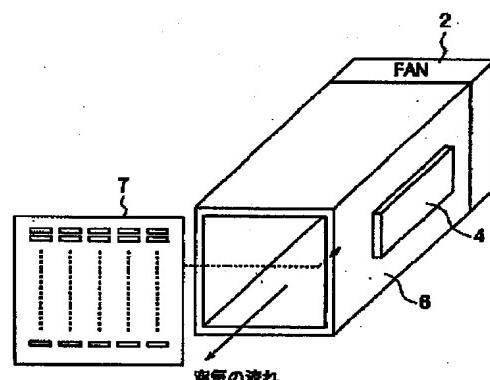
【図2】



【図3】



【図4】



【図5】

